

**LISTING OF CLAIMS**

- 1 1. (previously presented) A composite part having an integrated flow channel,  
2 comprising:
  - 3 an elongated foam core;
  - 4 at least one fabric layer secured to said elongated foam core and extending
  - 5 along a first elongated side thereof, said fabric layer enclosing an elongated channel
  - 6 between said first elongated side of said foam core and said fabric layer; and
  - 7 a flow channel media disposed in said elongated channel, said flow channel
  - 8 media having substantially less resistance to a flow of resin as compared to said fabric
  - 9 layer;
- 10 whereby resin introduced within said elongated channel under pressure will
- 11 substantially flow along a length of said elongated side.
- 1 2. (original) The composite part according to claim 1 wherein said fabric layer further  
2 encloses at least a second and third elongated side of said foam core, each of said  
3 second and third elongated sides adjoining said first elongated side.
- 1 3. (previously presented) The composite part according to claim 2, further comprising  
2 fabric tab portions extending from said second and third elongated sides.
- 1 4. (original) The composite part according to claim 1 further comprising a second flow  
2 channel media attached to said elongated foam core and extending along a second  
3 elongated side thereof, said flow channel media defining interstices for the passage of  
4 resin.
- 1 5. (original) The composite part according to claim 4 wherein said fabric layer  
2 encloses said second elongated side of said foam core, including said flow channel  
3 media, to define a second resin flow path along said second elongated side.

1 6. (original) The composite part according to claim 5 wherein said second elongated  
2 side is opposed from said first elongated side.

1 7. (original) The composite part according to claim 1 wherein said flow channel media  
2 is bounded by a second fabric layer interposed between said foam core and said flow  
3 channel media.

1 8. (previously presented) The composite part according to claim 7, wherein said  
2 second fabric layer is a substantially closed fabric for preventing a passage through said  
3 second fabric of said foam core into said flow channel media.

1 9. (amended) The composite part according to claim 1 wherein said flow channel  
2 medium media is a three-dimensional plastic matrix.

1 10. (original) The composite part according to claim 9 where wherein said flow channel  
2 medium media is between about 50 to 90% open space.

1 11. - 18. (Canceled)

1 19. (amended) The composite part according to claim 1, wherein said fabric layer  
2 has a porosity that selectively permits a predetermined amount of resin to escape from  
3 said flow elongated channel along said elongated length.

1 20. (previously presented) The composite part according to claim 1, wherein said  
2 elongated channel is disposed exclusively along said first elongated side.

1 21. (previously presented) The composite part according to claim 1, wherein said flow  
2 channel media is disposed exclusively along said first elongated side.

1 22. (previously presented) A composite part having an integrated flow channel,  
2 comprising:

3           an elongated foam core;  
4           a flow channel media attached to said elongated foam core and extending along  
5    a first elongated side thereof, said flow channel media defining interstices for the  
6    passage of resin;  
7           at least one fabric layer secured to said elongated foam core, and enclosing said  
8    first elongated side of said foam core, including said flow channel media, to define a  
9    resin flow path along said first elongated side; and  
10          wherein said flow channel media is bounded by a second fabric layer interposed  
11    between said foam core and said flow channel media.

1   23. (previously presented) A composite part having an integrated flow channel,  
2   comprising:  
3           an elongated foam core;  
4           at least one fabric layer secured to said elongated foam core and extending  
5    along a first elongated side thereof, said fabric layer at least partially enclosing an  
6    elongated channel between said first elongated side of said foam core and said fabric  
7    layer;  
8           a flow channel media disposed in said elongated channel, said flow channel  
9    media having less resistance to a flow of resin as compared to said fabric layer, and  
10          wherein said flow channel media is bounded by a second fabric layer interposed  
11    between said foam core and said flow channel media.

1   24. (previously presented) The composite part according to claim 23, wherein said flow  
2   channel media has less resistance to a flow of resin as compared to said second fabric  
3   layer.

1   25. (amended)    The composite part according to claim 23, wherein said flow  
2   channel medium media is a three-dimensional plastic matrix of fibers joined at the  
3   intersections thereof.

- 1 26. (amended) The composite part according to claim 23, wherein said flow
- 2 channel ~~medium comprised~~ comprises between about 50% to 90% open space.
  
- 1 27. (previously presented) The composite part according to claim 23, wherein said
- 2 fabric layer has a porosity that selectively permits a predetermined amount of resin to
- 3 escape from said ~~flow~~ elongated channel along said elongated length.